Medicare Participating Heart Bypass Center Demonstration:

Appropriateness Study - Appropriateness Rating Scale for CABG and PTCA

Submitted By:

Lewin-VHI
9302 Lee Highway, Suite 500
Fairfax, Virginia 22031-1207

and:

Lucian L. Leape, M.D.
Lee H. Hilborne, M.D., M.P.H.
William B. Stason, M.D., M.S.
Robert H. Brook, M.D., Sc.D.

The RAND Corporation
Santa Monica, California

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Armen H. Thoumaian, Ph.D.
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INSTRUCTIONS FOR REVIEWING AND RATING THE APPROPRIATENESS OF INDICATIONS FOR CORONARY ARTERY BYPASS GRAFT SURGERY AND PERCUTANEOUS TRANSLUMINAL CORONARY ANGIOPLASTY

INTRODUCTION

The rating forms are organized in 9 chapters by clinical presentation. For the first 8 chapters, you are asked to rate the appropriateness of performing coronary artery bypass graft surgery (CABG) and percutaneous transluminal coronary angioplasty (PTCA) for different, clinically specific procedure indications.

You may note a number of indications that clearly represent unacceptable practice or seem unreal. Their presence may merely represent an (inappropriate) adherence to the logic of the indication structure. However, they may also be there because they represent indications that are in fact occasionally used, and we need to have a specific judgment by the panel about appropriateness. Whatever your thoughts about the suitability of the indications, we request that you rate each one.

The list of definitions represents our best judgment of consensus opinions and conventions. They can be reconsidered and modified by the panel at the time of the meeting, if necessary, but please accept them for the first round and consult them when needed in making your judgments.

We have structured the indications around clinical scenarios, the extent of disease in the coronary arteries, and some tests results such as ejection fraction. We ask you to rate these indications for three different levels of comorbidity and risk. The three levels have been adopted from work by Parsonnet (see copy of paper enclosed). For purposes of our ratings, we have divided his scale into <9 (low or normal risk), 9-15 (moderately high risk), and greater than 15 (high risk). For example, a 60 year old male with chronic angina would be in the moderately high risk category if he were undergoing CABG as an emergency because of a complication of PTCA (Parsonnet score 10). An 83 year old patient would be in the high risk category even if all other risk factors were absent (Parsonnet score 20)

For the panel meeting, we will collate your ratings and identify those in which there is agreement on the ratings. We will then provide you with a condensed version for rating after the panel discussions.

THE APPROPRIATENESS RATING SCALE

We ask you to rate the clinical appropriateness of performing CABG or PTCA using a nine-point scale as follows:

Appropriateness Rating	Relationship of Benefits to Risks
1	Risks greatly exceed benefits
2	. . .
3	. . .
4	. . .
5	Benefits and risks about equal
6	. . .
7	. . .
8	. . .
9	Benefits greatly exceed risks

For 1990, please tell us how appropriate it is to perform CABG or PTCA for each specified indication. You are free to use any of the nine points on the scale to define your evaluation of the degree of appropriateness for use of the procedure.

By "appropriate" we mean that the expected health benefits to an average patient (e.g. increased life expectancy, prevention of complications, relief of pain, reduction of anxiety, improved functional capacity, etc.) exceed the expected health risks (e.g., mortality, morbidity, pain produced by the procedure) by a sufficiently wide margin that the procedure is worth doing, AND it is superior to the alternative treatments (including no treatment).

Please evaluate benefits and risks based on commonly accepted best clinical practice at the present time. Your judgment of appropriateness should be for an average patient with the indication, presenting to an average cardiac surgeon in the United States who performs CABG or to an average U.S. cardiologist who performs PTCA. The ratings should reflect your own personal clinical judgment.

RATING INDICATIONS FOR APPROPRIATENESS

See the sample rating page (next page). The "Chapter", or clinical presentation is an average patient with chronic stable angina. For this presentation, there are 96 indications, each representing a specific combination of critical factors: severity of symptoms, extent of treatment, anatomic disease locus (left main, three vessel disease, etc.) and risk factors. The first combination of factors under "1. Severe Angina, A. Patient is on maximal medical therapy" depicts a patient with left main disease who has an ejection fraction of greater than 50%.

Chapter 1

CHRONIC STABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
PATIENT HAS SEVERE ANGINA (CLASS III, IV)							
A. ON MAXIMAL MEDICAL THERAPY							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(25- 30)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(31- 36)
3. Two vessel disease with proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(37- 42)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(43- 48)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(49- 54)
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(55- 60)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 (2) 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 (9)	1 2 3 4 5 6 7 8 9	1 X 3 4 5 6 (7) 8 9	1 2 3 4 5 6 7 8 9	(61- 66)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(67- 72)
4. Two vessel disease without proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(73- 78)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(79- 84)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(85- 90)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

To the right of this indication are six nine-point scales for rating appropriateness. These are divided into two groups of three according to the headings at the top. The first group of three scales is for rating appropriateness of CABG and PTCA for a patient with normal or low operative risk. The second group of three is for rating appropriateness for patients with higher risk: first for patients with moderately high risk, and a second time, using the same scales, but a different symbol (X versus O) for patients with very high risk.

In each risk category, we ask you to rate each indication three ways: 1) the appropriateness of CABG if the patient is NOT also a candidate for PTCA (i.e., versus medical therapy), 2) the appropriateness of CABG if the patient IS also a candidate for PTCA, and 3) the appropriateness of PTCA compared to medical therapy.

Give your ratings of appropriateness by circling the number in each scale that represents your judgment for an average patient for that specific indication. The first set of three columns are scales for patients of **low or normal risk**. In the first column circle the number that represents your evaluation of appropriateness of CABG for a patient who is NOT a candidate for PTCA. In the second column, circle your rating of appropriateness for CABG for a patient who IS a candidate for PTCA. In the third column, circle your rating of appropriateness for PTCA versus medical therapy.

Next, moving to the second set of three columns, repeat your ratings for the same indication for a patient with **moderately high risk** circling the appropriate numbers in the second group of three scales, circling your rating of the appropriateness of CABG for a patient who is NOT a candidate for PTCA, CABG for a patient who IS a candidate for PTCA, and PTCA.

Finally, using the second set of 3 scales again, indicate your ratings for each of the three procedural choices for a patient with a **very high risk** by placing an "X" over the correct number on each of the three scales in the second group. A number can be both circled and have an X placed on it. When finished, you will have rated each specific indication nine times: for three procedural combinations in each of three levels of risk.

EXAMPLE

Note the boxed ratings on the example page. The circled number 8 in the scale in column 1 indicates that the panelist's opinion is that CABG is highly "appropriate" in a patient who is not a candidate for PTCA and who is a normal or low risk, with the combination of: 1) chronic stable angina, 2) severe angina, 3) on maximum medical therapy, with 4) two vessel disease with proximal left anterior descending involvement, 5) a negative to minimally positive exercise ECG, and 6) an ejection fraction of 20-49%.

The circled 2 in the second column represents the panelist's judgment that CABG is highly "inappropriate" for the same patient if he or she is also a candidate for PTCA, because the rater considers PTCA preferable to CABG in this patient. If in this patient, the rater felt it is a toss-up whether to perform CABG or PTCA, i.e., that the patient

could have either and their appropriateness is about equal, then he would circle the number 5, indicating that the indication for CABG in this situation is equivocal. The rating of 9 in the third column indicates that PTCA is judged to be extremely appropriate for this patient.

Considering the boxed ratings in the sixth column, we find that the panelist rates PTCA "appropriate" for a patient with the same combination of symptoms and findings but who is a moderately high operative risk by circling the number 7. Finally, a patient with the same characteristics except that he or she is a very high risk is given a rating of highly "inappropriate" for use of PTCA as indicated by the "X" over the number 2.

For each indication, please provide a rating for each procedural combination and for all three levels of risk. This will require that you circle 6 numbers and place an X over 3, a total of 9 ratings for each indication.

At the end of the indications are several blank forms. If you find there are some subdivisions or specific indications that are missing, we encourage you to write them down and provide ratings for them.

All of the above ratings apply only to patients who do not meet the general contraindications to CABG as listed in the definitions.

DEFINITIONS

UNSTABLE ANGINA

Chest pain thought to be due to myocardial ischemia, requiring hospitalization because of difficulty in control or concern about the possibility of myocardial infarction; includes 1) recent increase in the intensity, frequency, or duration of chronic angina, 2) the development of angina at rest, or 3) new onset of severe chest pain ("acute coronary insufficiency").

ASYMPTOMATIC CORONARY ARTERY DISEASE

A patient with significant coronary artery disease who has no history of angina. Includes patients screened for risk factors, high risk occupations, prior myocardial infarction.

ANGINA CLASS (Canadian Cardiovascular Society classification)

Class I = Angina on strenuous exertion.

Class II = Angina on walking or climbing stairs rapidly.

Class III = Angina on walking one or two level blocks.

Class IV = Angina on any physical activity; (Also include for this panel: angina at rest.)

SIGNIFICANT CORONARY ARTERY DISEASE

Left main disease: 50 percent or greater reduction in the luminal diameter of the left main coronary artery on angiography.

Three-vessel disease: 50 percent or greater reduction in the luminal diameter of all three major coronary arteries on angiography, with at least one lesion 70 percent or greater.

Two-vessel disease: 50 percent or greater reduction in the luminal diameter of two major coronary arteries, with at least one lesion 70 percent or greater.

One-vessel disease: 70 percent or greater reduction in the luminal diameter of one major coronary artery (not left main).

MAXIMUM MEDICAL THERAPY

The patient has received drugs from at least two of the three major categories (nitrates, beta-blockers, and calcium antagonists) OR the patient has received one class of medication but there is a note in the chart that the patient is unable to tolerate the others.

POSITIVE STRESS ECG

VERY POSITIVE STRESS ECG: (a) During the first 3 minutes of the test (or onset at heart rate less than 120 beats/minute off beta-blockers, or less than 6.5 METS) the patient develops: (1) 1 mm or more of horizontal or downsloping ST segment depression that is present 80 msec after the J-point or (2) the occurrence of typical angina; OR (b) a decrease in systolic blood pressure of 20 mm mercury or more; OR (c) more than 2 mm of horizontal or downsloping ST depression at any time, OR (d) persistence of ST depression for greater than 6 minutes post-exercise.

POSITIVE STRESS ECG: After the first 3 minutes of the test the patient develops: (1) 1 mm or more of horizontal or downsloing ST segment depression that is present 80 msec after the J-point or (2) typical angina occurs.

INDETERMINATE OR NEGATIVE STRESS ECG: Absence of any of the above findings.

LEVELS OF RISK

LOW RISK: Patient has no or few risk factors. Operative mortality risk is not significantly increased. (Parsonnet score 0-8)

INCREASED RISK: Expected operative mortality is 2-4 times that of a low-risk patient because of significant comorbidity, advanced age, re-operation, or associated non-coronary heart disease. (Parsonnet score 9-15)

HIGH RISK: Expected operative mortality is more than 4 times that of low risk patient because of significant comorbidity, advanced age, associated non-coronary heart disease. (Parsonnet score greater than 15)

GENERAL CONTRAINDICATIONS TO CABG

Although these contraindications apply to PTCA as well, PTCA may be considered for palliative relief of severe pain.

1. Terminal illness, such as cancer, AIDS, severe COPD, hepatic failure, where a reasonable prognosis is 6 months or less.
2. Advanced Dementia.
3 Severe impairment in ability to perform basic activities of daily living (Katz score of 3/6 or below) because of non-cardiac disease.

CANDIDATE FOR PTCA

A patient with significant coronary artery disease in whom the characteristics of the lesions are such that there is a reasonable probability that dilatation can be accomplished without unusual risk.

CANDIDATE FOR CABG

A patient with significant coronary artery disease in whom the characteristics of the lesions are such that there is a reasonable probability that coronary artery bypass grafting can be accomplished without unusual risk.

Chapter 1

CHRONIC STABLE ANGINA

The indications for CABG or PTCA in patients with chronic stable angina are grouped into the following categories:

I. SEVERE ANGINA (CLASS III, IV)

II. MILD OR MODERATE ANGINA (CLASS I, II)

Each of these categories is subdivided according to medical therapy:

A. PATIENT IS ON MAXIMAL MEDICAL THERAPY

B. PATIENT IS ON LESS THAN MAXIMAL MEDICAL THERAPY

Within each category, you are asked to rate the indication for appropriateness according to the location and extent of coronary artery disease:

1. Left Main Disease
2. Three vessel disease
3. Two vessel disease with proximal LAD
4. Two vessel disease without proximal LAD
5. Single vessel disease - proximal LAD
6. Single vessel disease - any vessel other than PLAD

These are further broken down according to three levels of ejection fraction: >50%, 20-49%, and <20%, and, for two vessel disease, according to whether the exercise ECG was very positive or not.

The structure of the indications is as follows:

I. SEVERE ANGINA (CLASS III, IV)

A. PATIENT IS ON MAXIMAL MEDICAL THERAPY

1. Left Main Disease

a. Ejection fraction 50% +
b. Ejection fraction 20-49%
c. Ejection fraction < 20%

There are a total of 96 indications in this chapter.

Chapter 1

CHRONIC STABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
PATIENT HAS SEVERE ANGINA (CLASS III, IV)							
A. ON MAXIMAL MEDICAL THERAPY							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(25- 30)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(31- 36)
3. Two vessel disease with proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(37- 42)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(43- 48)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(49- 54)
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(55- 60)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(61- 66)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(67- 72)
4. Two vessel disease without proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(73- 78)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(79- 84)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(85- 90)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 1

CHRONIC STABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(91- 96)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(97-102)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(103-108)
5. Single vessel disease - proximal left anterior descending							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(109-114)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(115-120)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(121-126)
6. Single vessel disease - any vessel other than PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(127-132)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(133-138)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(139-144)
B. ON LESS THAN MAXIMAL MEDICAL THERAPY							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(145-150)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(151-156)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(157-162)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(163-168)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(169-174)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(175-180)
3. Two vessel disease with proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(181-186)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(187-192)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(193-198)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 1

CHRONIC STABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (M)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(199-204)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(205-210)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(211-216)
4. Two vessel disease without proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(217-222)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(223-228)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(229-234)
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(235-240)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(241-246)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(247-252)
5. Single vessel disease - proximal left anterior descending							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(253-258)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(259-264)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(265-270)
6. Single vessel disease - any vessel other than PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(271-276)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(277-282)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(283-288)

Chapter 1

CHRONIC STABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (U) AND VERY HIGH RISK (H)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
PATIENT HAS MILD OR MODERATE ANGINA (CLASS I, II)							
A. ON MAXIMAL MEDICAL THERAPY							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(289-294)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(295-300)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(301-306)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(307-312)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(313-318)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(319-324)
3. Two vessel disease with proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(325-330)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(331-336)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(337-342)
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(343-348)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(349-354)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(355-360)
4. Two vessel disease without proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(361-366)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(367-372)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(373-378)

Chapter 1

CHRONIC STABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(379-384)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(385-390)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(391-396)
5. Single vessel disease - proximal left anterior descending							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(397-402)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(403-408)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(409-414)
6. Single vessel disease - any vessel other than PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(415-420)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(421-426)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(427-432)
B. PATIENT IS ON LESS THAN MAXIMAL MEDICAL THERAPY							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(433-438)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(439-444)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(445-450)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(451-456)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(457-462)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(463-468)
3. Two vessel disease with proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(469-474)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(475-480)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(481-486)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 1

CHRONIC STABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (H)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(487-492)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(493-498)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(499-504)
4. Two vessel disease without proximal left anterior descending involvement							
a. With a very positive exercise ECG							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(505-510)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(511-516)
a3.Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(517-522)
b. With a negative to minimally positive exercise ECG							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(523-528)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(529-534)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(535-540)
5. Single vessel disease - proximal left anterior descending							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(541-546)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(547-552)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(553-558)
6. Single vessel disease - any vessel other than PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(559-564)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(565-570)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(571-576)

Chapter 2

UNSTABLE ANGINA

The indications for CABG or PTCA in patients with unstable angina are grouped into the following categories:

I. SYMPTOMS ON MAXIMAL MEDICAL THERAPY

II. SYMPTOMS ON LESS THAN MAXIMAL MEDICAL THERAPY

III. NO SYMPTOMS ON MAXIMAL MEDICAL THERAPY

Within each category, you are asked to rate the indication for appropriateness according to the location and extent of coronary artery disease:

1. Left Main Disease
2. Three vessel disease
3. Two vessel disease with proximal LAD
4. Two vessel disease without proximal LAD
5. Single vessel disease - proximal LAD
6. Single vessel disease - any vessel other than PLAD

These are further broken down according to three levels of ejection fraction: >50%, 20-49%, and <20%. There are a total of 54 indications in this chapter.

Chapter 2

UNSTABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
SYMPTOMS ON MAXIMAL MEDICAL THERAPY							
A. LEFT MAIN DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
B. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(25- 30)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(31- 36)
C. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(37- 42)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(43- 48)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(49- 54)
D. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(55- 60)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(61- 66)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(67- 72)
E. SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(73- 78)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(79- 84)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(85- 90)
F. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(91- 96)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(97-102)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(103-108)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 2

UNSTABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
SYMPTOMS ON LESS THAN MAXIMAL MEDICAL THERAPY							
A. LEFT MAIN DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(109–114)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(115–120)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(121–126)
B. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(127–132)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(133–138)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(139–144)
C. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(145–150)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(151–156)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(157–162)
D. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(163–168)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(169–174)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(175–180)
E. SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(181–186)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(187–192)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(193–198)
F. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(199–204)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(205–210)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(211–216)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 2

UNSTABLE ANGINA

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
NO SYMPTOMS ON MAXIMAL MEDICAL THERAPY (NOT PREVIOUSLY RECEIVING MAXIMUM MEDICAL THERAPY)							
A. LEFT MAIN DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(217-222)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(223-228)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(229-234)
B. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(235-240)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(241-246)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(247-252)
C. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(253-258)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(259-264)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(265-270)
D. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(271-276)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(277-282)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(283-288)
E. SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(289-294)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(295-300)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(301-306)
F. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(307-312)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(313-318)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(319-324)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 3

ACUTE MYOCARDIAL INFARCTION

The indications for CABG or PTCA in patients with acute myocardial infarction are grouped into the following categories:

I. CARDIOGENIC SHOCK PRESENT

There are four indications in this category: Left main disease, 3 VD, 2 VD, and 1 VD.

II. EVOLVING MYOCARDIAL INFARCTION (First 12 hours) - AFTER SUCCESSFUL THROMBOLYTIC THERAPY

III. EVOLVING MYOCARDIAL INFARCTION (First 12 hours) - THROMBOLYTIC THERAPY NOT SUCCESSFUL OR NOT GIVEN

Each of these major categories is subdivided into two types of AMI:

A. Transmural (Q-wave) myocardial infarction

B. Subendocardial (Non-Q-wave) myocardial infarction

Within each type of MI, you are asked to rate the indication for appropriateness according to the location and extent of coronary artery disease:

1. Left Main Disease
2. Three vessel disease
3. Two vessel disease with proximal LAD
4. Two vessel disease without proximal LAD
5. Single vessel disease - proximal LAD
6. Single vessel disease - any vessel other than PLAD

Each is rated according to three levels of ejection fraction.

The structure of the indications is:

II. EVOLVING MYOCARDIAL INFARCTION (First 12 hours) - AFTER SUCCESSFUL THROMBOLYTIC THERAPY

A. Transmural (Q-wave) myocardial infarction

1. Left Main Disease

a. Ejection fraction 50%+
b. Ejection fraction 20-49%
etc....

There are a total of 76 indications in this chapter.

Chapter 3

ACUTE MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
CARDIOGENIC SHOCK PRESENT							
1. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6
2. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
3. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
4. Single vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)
EVOLVING MYOCARDIAL INFARCTION (FIRST 12 HOURS) - AFTER SUCCESSFUL THROMBOLYSIS							
A. TRANSMURAL (Q-WAVE) MYOCARDIAL INFARCTION							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(25- 30)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(31- 36)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(37- 42)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(43- 48)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(49- 54)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(55- 60)
3. Two vessel disease with proximal left anterior descending involvement							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(61- 66)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(67- 72)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(73- 78)
4. Two vessel disease without proximal left anterior descending involvement							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(79- 84)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(85- 90)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(91- 96)
5. Single vessel disease - proximal left anterior descending							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(97-102)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(103-108)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 3

ACUTE MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(109–114)
6. Single vessel disease - any vessel other than PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(115–120)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(121–126)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(127–132)
B. SUBENDOCARDIAL (NON Q-WAVE) MYOCARDIAL INFARCTION							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(133–138)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(139–144)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(145–150)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(151–156)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(157–162)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(163–168)
3. Two vessel disease with proximal left anterior descending involvement							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(169–174)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(175–180)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(181–186)
4. Two vessel disease without proximal left anterior descending involvement							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(187–192)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(193–198)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(199–204)
5. Single vessel disease - proximal left anterior descending							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(205–210)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(211–216)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(217–222)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 3

ACUTE MYOCARDIAL INFARCTION	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
6. Single vessel disease - any vessel other than PIAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(223-228)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(229-234)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(235-240)
EVOLVING MYOCARDIAL INFARCTION (FIRST 12 HOURS) - THROMBOLYSIS UNSUCCESSFUL OR NOT ADMINISTERED							
A. TRANSMURAL (Q-WAVE) MYOCARDIAL INFARCTION							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(241-246)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(247-252)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(253-258)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(259-264)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(265-270)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(271-276)
3. Two vessel disease with proximal left anterior descending involvement							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(277-282)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(283-288)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(289-294)
4. Two vessel disease without proximal left anterior descending involvement							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(295-300)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(301-306)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(307-312)
5. Single vessel disease - proximal left anterior descending							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(313-318)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(319-324)

Chapter 3

ACUTE MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(325-330)
6. Single vessel disease - any vessel other than PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(331-336)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(337-342)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(343-348)
B. SUBENDOCARDIAL (NON Q-WAVE) MYOCARDIAL INFARCTION							
1. Left main disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(349-354)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(355-360)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(361-366)
2. Three vessel disease							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(367-372)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(373-378)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(379-384)
3. Two vessel disease with proximal left anterior descending involvement							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(385-390)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(391-396)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(397-402)
4. Two vessel disease without proximal left anterior descending involvement							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(403-408)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(409-414)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(415-420)
5. Single vessel disease - proximal left anterior descending							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(421-426)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(427-432)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(433-438)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 3

ACUTE MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
6. Single vessel disease - any vessel other than PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(439-444)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(445-450)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(451-456)

Chapter 4

POST MYOCARDIAL INFARCTION

The indications for CABG or PTCA in patients post myocardial infarction are grouped into the following categories:

A. WITHIN 7 DAYS OF AN ACUTE MYOCARDIAL INFARCTION (OR BEFORE HOSPITAL DISCHARGE)

I. ANGINA AFTER THROMBOLYTIC THERAPY

II. ANGINA - NO THROMBOLYTIC THERAPY HAS BEEN GIVEN

III. ASYMPTOMATIC - WITH POSITIVE EXERCISE ECG

IV. ASYMPTOMATIC - WITH NEGATIVE TO MINIMALLY POSITIVE EXERCISE ECG

Each of the last two major categories is subdivided into two types of AMI:

A. Transmural (Q-wave) myocardial infarction

B. Subendocardial (Non-Q-wave) myocardial infarction

For all categories, there are 7 levels of disease: Left main disease (LM) with anterior infarction, LM with posterior or posterior-inferior infarction, 3 VD, 2 VD with PLAD, 2 VD without PLAD and 1 VD, PLAD or other.

Each vessel level indication is further subdivided according to three levels of ejection fraction: >50%, 20-49%, and <20%.

B. ONE TO SIX WEEKS FOLLOWING AN ACUTE MYOCARDIAL INFARCTION

I. ANGINA

II. ASYMPTOMATIC - WITH POSITIVE EXERCISE ECG

III. ASYMPTOMATIC - WITH NEGATIVE TO MINIMALLY POSITIVE EXERCISE ECG

The last two categories are subdivided into transmural and subendocardial MI with the same vessels and ejection fractions as above.

There are a total of 231 indications in this chapter.

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
WITHIN 7 DAYS OF AMI; PATIENT HAS ANGINA AFTER THROMBOLYTIC THERAPY							
A. LEFT MAIN DISEASE - ANTERIOR MYOCARDIAL INFARCTION							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
B. LEFT MAIN DISEASE - POSTERIOR OR POSTERIOR-INFERIOR MYOCARDIAL INFARCTION							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(25- 30)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(31- 36)
C. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(37- 42)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(43- 48)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(49- 54)
D. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(55- 60)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(61- 66)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(67- 72)
E. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(73- 78)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(79- 84)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(85- 90)
F. SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(91- 96)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(97-102)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(103-108)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
G. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(109-114)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(115-120)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(121-126)
WITHIN 7 DAYS FOLLOWING AMI; PATIENT HAS ANGINA - NO THROMBOLYTIC THERAPY GIVEN							
A. LEFT MAIN DISEASE - ANTERIOR MYOCARDIAL INFARCTION							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(127-132)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(133-138)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(139-144)
B. LEFT MAIN DISEASE - POSTERIOR OR POSTERIOR-INFERIOR MYOCARDIAL INFARCTION							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(145-150)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(151-156)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(157-162)
C. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(163-168)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(169-174)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(175-180)
D. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(181-186)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(187-192)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(193-198)
E. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(199-204)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(205-210)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(211-216)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
F. SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(217-222)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(223-228)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(229-234)
G. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(235-240)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(241-246)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(247-252)
WITHIN 7 DAYS AFTER AMI; PATIENT IS ASYMPTOMATIC - WITH POSITIVE EXERCISE ECG							
1. Transmural (Q-wave) myocardial infarction							
a. Left main disease - Anterior myocardial infarction							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(253-258)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(259-264)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(265-270)
b. Left main disease - Posterior or Posterior-Inferior myocardial infarction							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(271-276)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(277-282)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(283-288)
c. Three vessel disease							
c1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(289-294)
c2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(295-300)
c3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(301-306)

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
d. Two vessel disease with proximal left anterior descending involvement							
d1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(307-312)
d2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(313-318)
d3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(319-324)
e. Two vessel disease without proximal left anterior descending involvement							
e1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(325-330)
e2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(331-336)
e3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(337-342)
f. Single vessel disease - proximal left anterior descending							
f1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(343-348)
f2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(349-354)
f3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(355-360)
g. Single vessel disease - any vessel other than RIAD							
g1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(361-366)
g2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(367-372)
g3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(373-378)
2. Subendocardial (non Q-Wave) myocardial infarction							
a. Left main disease - Anterior myocardial infarction							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(379-384)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(385-390)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(391-396)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
b. Left main disease - Posterior or Posterior-Inferior myocardial infarction							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(397-402)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(403-408)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(409-414)
c. Three vessel disease							
c1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(415-420)
c2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(421-426)
c3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(427-432)
d. Two vessel disease with proximal left anterior descending involvement							
d1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(433-438)
d2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(439-444)
d3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(445-450)
e. Two vessel disease without proximal left anterior descending involvement							
e1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(451-456)
e2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(457-462)
e3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(463-468)
f. Single vessel disease - proximal left anterior descending							
f1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(469-474)
f2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(475-480)
f3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(481-486)
g. Single vessel disease - any vessel other than PLAD							
g1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(487-492)
g2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(493-498)
g3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(499-504)

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POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (U) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
WITHIN 7 DAYS AFTER AMI; PATIENT IS ASYMPTOMATIC - WITH NEGATIVE TO MINIMALLY POSITIVE EXERCISE ECG							
1. Transmural (Q-wave) myocardial infarction							
a. Left main disease - Anterior myocardial infarction							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(505-510)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(511-516)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(517-522)
b. Left main disease - Posterior or Posterior-Inferior myocardial infarction							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(523-528)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(529-534)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(535-540)
c. Three vessel disease							
c1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(541-546)
c2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(547-552)
c3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(553-558)
d. Two vessel disease with proximal left anterior descending involvement							
d1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(559-564)
d2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(565-570)
d3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(571-576)
e. Two vessel disease without proximal left anterior descending involvement							
e1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(577-582)
e2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(583-588)
e3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(589-594)

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	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
f. Single vessel disease - proximal left anterior descending							
f1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(595-600)
f2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(601-606)
f3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(607-612)
g. Single vessel disease - any vessel other than PLAD							
g1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(613-618)
g2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(619-624)
g3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(625-630)
2. Subendocardial (non Q-Wave) myocardial infarction							
a. Left main disease - Anterior myocardial infarction							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(631-636)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(637-642)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(643-648)
b. Left main disease - Posterior or Posterior-Inferior myocardial infarction							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(649-654)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(655-660)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(661-666)
c. Three vessel disease							
c1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(667-672)
c2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(673-678)
c3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(679-684)

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POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
d. Two vessel disease with proximal left anterior descending involvement							
d1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(685-690)
d2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(691-696)
d3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(697-702)
e. Two vessel disease without proximal left anterior descending involvement							
e1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(703-708)
e2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(709-714)
e3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(715-720)
f. Single vessel disease - proximal left anterior descending							
f1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(721-726)
f2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(727-732)
f3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(733-738)
g. Single vessel disease - any vessel other than PLAD							
g1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(739-744)
g2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(745-750)
g3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(751-756)
ONE TO SIX WEEKS FOLLOWING AMI; PATIENT HAS ANGINA							
A. LEFT MAIN DISEASE - ANTERIOR MYOCARDIAL INFARCTION							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(757-762)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(763-768)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(769-774)
B. LEFT MAIN DISEASE - POSTERIOR OR POSTERIOR-INFERIOR MYOCARDIAL INFARCTION							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(775-780)

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POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(781-786)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(787-792)
C. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(793-798)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(799-804)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(805-810)
D. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(811-816)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(817-822)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(823-828)
E. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(829-834)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(835-840)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(841-846)
F. SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(847-852)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(853-858)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(859-864)
G. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
a. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(865-870)
b. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(871-876)
c. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(877-882)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
ONE TO SIX WEEKS FOLLOWING AMI; PATIENT IS ASYMPTOMATIC - WITH POSITIVE EXERCISE ECG							
A. LEFT MAIN DISEASE - ANTERIOR MYOCARDIAL INFARCTION							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(883-888)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(889-894)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(895-900)
B. LEFT MAIN DISEASE - POSTERIOR OR POSTERIOR-INFERIOR MYOCARDIAL INFARCTION							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(901-906)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(907-912)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(913-918)
C. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(919-924)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(925-930)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(931-936)
D. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(937-942)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(943-948)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(949-954)
E. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(955-960)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(961-966)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(967-972)
F. SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(973-978)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(979-984)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(985-990)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
G. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(991-996)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1002)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1008)
ONE TO SIX WEEKS FOLLOWING AMI; PATIENT IS ASYMPTOMATIC - WITH NEGATIVE TO MINIMALLY POSITIVE EXERCISE ECG							
1. Transmural (Q-wave) myocardial infarction							
a. Left main disease - Anterior myocardial infarction							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1014)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1020)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1026)
b. Left main disease - Posterior or Posterior-Inferior myocardial infarction							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1032)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1038)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1044)
c. Three vessel disease							
c1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1050)
c2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1056)
c3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1062)
d. Two vessel disease with proximal left anterior descending involvement							
d1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1068)
d2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1074)
d3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1080)

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
e. Two vessel disease without proximal left anterior descending involvement							
e1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1086)
e2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1092)
e3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1098)
f. Single vessel disease - proximal left anterior descending							
f1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1104)
f2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1110)
f3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1116)
g. Single vessel disease - any vessel other than PLAD							
g1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1122)
g2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1128)
g3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1134)
2. Subendocardial (non Q-Wave) myocardial infarction							
a. Left main disease - Anterior myocardial infarction							
a1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1140)
a2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1146)
a3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1152)
b. Left main disease - Posterior or Posterior-Inferior myocardial infarction							
b1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1158)
b2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1164)
b3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1170)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 4

POST MYOCARDIAL INFARCTION

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
c. Three vessel disease							
c1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1176)
c2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1182)
c3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1188)
d. Two vessel disease with proximal left anterior descending involvement							
d1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1194)
d2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1200)
d3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1206)
e. Two vessel disease without proximal left anterior descending involvement							
e1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1212)
e2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1218)
e3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1224)
f. Single vessel disease - proximal left anterior descending							
f1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1230)
f2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1236)
f3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1242)
g. Single vessel disease - any vessel other than PLAD							
g1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1248)
g2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1254)
g3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(-1260)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 5

ASYMPTOMATIC

The indications for CABG or PTCA in asymptomatic patients are grouped into the following categories:

I. PREVIOUS MYOCARDIAL INFARCTION

II. NO PREVIOUS MYOCARDIAL INFARCTION

Each category is subdivided into two groups according to whether the exercise ECG was a) very positive or b) negative to minimally positive, indeterminate, or not done.

Within each category, you are asked to rate the indication for appropriateness for six types of vessel disease:

1. Left Main Disease
2. Three vessel disease
3. Two vessel disease with proximal LAD
4. Two vessel disease without proximal LAD
5. Single vessel disease - proximal LAD
6. Single vessel disease - any vessel other than PLAD

There are a total of 24 indications in this chapter.

Chapter 5

ASYMPTOMATIC	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
PREVIOUS MYOCARDIAL INFARCTION (> 3 MONTHS AGO)							
1. With very positive exercise ECG							
A. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6)
B. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
C. Two vessel disease with proximal left anterior descending involvement	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
D. Two vessel disease without proximal left anterior descending involvement	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)
E. Single vessel disease - proximal left anterior descending	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(25- 30)
F. Single vessel disease - any vessel other than PLAD	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(31- 36)
2. With negative to minimally positive exercise ECG							
A. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(37- 42)
B. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(43- 48)
C. Two vessel disease with proximal left anterior descending involvement	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(49- 54)
D. Two vessel disease without proximal left anterior descending involvement	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(55- 60)
E. Single vessel disease - proximal left anterior descending	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(61- 66)
F. Single vessel disease - any vessel other than PLAD	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(67- 72)
NO PREVIOUS MYOCARDIAL INFARCTION (HIGH RISK OCCUPATION OR POSITIVE SCREENING EXAMINATION)							
1. With very positive exercise ECG							
A. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(73- 78)
B. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(79- 84)
C. Two vessel disease with proximal left anterior descending involvement	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(85- 90)
D. Two vessel disease without proximal left anterior descending involvement	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(91- 96)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 5

ASYMPTOMATIC

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
E. Single vessel disease - proximal left anterior descending	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(97-102)
F. Single vessel disease - any vessel other than PLAD	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(103-108)
2. With negative to minimally positive exercise ECG							
A. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(109-114)
B. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(115-120)
C. Two vessel disease with proximal left anterior descending involvement	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(121-126)
D. Two vessel disease without proximal left anterior descending involvement	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(127-132)
E. Single vessel disease - proximal left anterior descending	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(133-138)
F. Single vessel disease - any vessel other than PLAD	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(139-144)

Chapter 6

NEAR SUDDEN CARDIAC DEATH

The indications for CABG or PTCA in patients with near sudden cardiac death are grouped into two categories:

I. WITH ANGINA AND/OR A VERY POSITIVE EXERCISE ECG

II. WITH NEITHER ANGINA NOR A POSITIVE EXERCISE ECG

Within each category, you are asked to rate the indication for appropriateness according to the location and extent of coronary artery disease:

1. Left Main Disease
2. Three vessel disease
3. Two vessel disease with proximal LAD
4. Two vessel disease without proximal LAD
5. Single vessel disease - proximal LAD
6. Single vessel disease - any vessel other than PLAD

These are further broken down according to three levels of ejection fraction: >50%, 20-49%, and <20%.

There are a total of 36 indications in this chapter.

Chapter 6

NEAR SUDDEN DEATH

	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
WITH ANGINA AND/OR STRONGLY POSITIVE EXERCISE ECG							
A. LEFT MAIN DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
B. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(25- 30)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(31- 36)
C. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(37- 42)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(43- 48)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(49- 54)
D. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(55- 60)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(61- 66)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(67- 72)
E. SINGLE VESEEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(73- 78)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(79- 84)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(85- 90)
F. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(91- 96)
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(97-102)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(103-108)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(109-114)

Chapter 6

NEAR SUDDEN DEATH

	NORMAL OR LOW RISK			MODERATELY HIGH (D) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
2. With neither angina nor a positive exercise ECG							
A. LEFT MAIN DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(115-120)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(121-126)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(127-132)
B. THREE VESSEL DISEASE							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(133-138)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(139-144)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(145-150)
C. TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(151-156)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(157-162)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(163-168)
D. TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(169-174)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(175-180)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(181-186)
E. SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(187-192)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(193-198)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(199-204)
F. SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(205-210)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(211-216)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(217-222)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 7

POST PTCA COMPLICATION

The indications for CABG or PTCA in patients with post PTCA complications are grouped into two categories:

I. PTCA NOT ATTEMPTED TO REOPEN THE OCCLUSION

II. PTCA ATTEMPTED BUT FAILED TO REOPEN THE OCCLUSION

Within each category, you are asked to rate the indication for appropriateness according to whether or not the myocardium is in jeopardy.

There are 4 indications in this chapter

Chapter 7

IMMEDIATELY FOLLOWING PTCA WITH MAJOR COMPLICATION	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
1. PTCA not attempted to reopen occlusion							
A. Myocardium in immediate jeopardy	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6)
B. Myocardium not in immediate jeopardy	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
2. PTCA attempted but failed to reopen occlusion							
A. Myocardium in immediate jeopardy	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
B. Myocardium not in immediate jeopardy	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 8

CORONARY REVASCULARIZATION WITH VALVE SURGERY

The indications for CABG or PTCA in patients who are undergoing valve repair or replacement are grouped by six vessel categories:

1. Left Main Disease
2. Three vessel disease
3. Two vessel disease with proximal LAD
4. Two vessel disease without proximal LAD
5. Single vessel disease - proximal LAD
6. Single vessel disease - any vessel other than PLAD

These are further broken down according to three levels of ejection fraction: >50%, 20-49%, and <20%, and, for two vessel disease, according to whether the exercise ECG was very positive or not.

There are 24 indications in this chapter.

Chapter 8

CORONARY REVASCULARIZATION WITH VALVE SURGERY

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
LEFT MAIN DISEASE							
A. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(1- 6)
B. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(7- 12)
C. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(13- 18)
THREE VESSEL DISEASE							
A. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(19- 24)
B. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(25- 30)
C. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(31- 36)
TWO VESSEL DISEASE WITH PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
A. WITH A VERY POSITIVE EXERCISE ECG							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(37- 42)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(43- 48)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(49- 54)
B. WITH A NEGATIVE TO MINIMALLY POSITIVE EXERCISE ECG							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(55- 60)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(61- 66)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(67- 72)
TWO VESSEL DISEASE WITHOUT PROXIMAL LEFT ANTERIOR DESCENDING INVOLVEMENT							
A. WITH A VERY POSITIVE EXERCISE ECG							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(73- 78)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(79- 84)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(85- 90)
B. WITH A NEGATIVE TO MINIMALLY POSITIVE EXERCISE ECG							
1. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(91- 96)
2. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(97-102)
3. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(103-108)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 8

CORONARY REVASCULARIZATION WITH VALVE SURGERY	NORMAL OR LOW RISK			MODERATELY HIGH (O) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
SINGLE VESSEL DISEASE - PROXIMAL LEFT ANTERIOR DESCENDING							
A. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(109-114
B. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(115-120)
C. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(121-126)
SINGLE VESSEL DISEASE - ANY VESSEL OTHER THAN PLAD							
A. Ejection fraction >50%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(127-132
B. Ejection fraction 20-49%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(133-138)
C. Ejection fraction <20%	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	(139-144)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 9

PALLIATIVE PTCA

The pupose of this chapter is to provide the opportunity to rate the appropriateness of performing PTCA in patients who would not be considered for CABG because of limited life expectancy or extremely high comorbidity. These are patients who would not be candidates for emergency CABG in the event of a PTCA complication.

There are 8 categories of indications:

1. Severe angina

2. Unstable angina

3. Acute myocardial infarction

   A. Cardiogenic Shock

   B. Evolving AMI - post thrombolytic therapy

   C. Evolving AMI - no thrmobolytic therapy

4. Post Myocardial infarction (1-7 days)

   A. Angina after thrombolysis

   B. Angina, no thrombolytic therapy

5. Post myocardial infarction angina (1-6 weeks)

In each category please rate the indication according to location and extent of disease:

1. Left main disease
2. Three vessel disease
3. Two vessel disease
4. Single vessel disease

There are a total of 32 indications to be rated in this chapter.

Chapter 9

PATIENT HAS SUFFICIENT COMORBIDITIES THAT HE/SHE WOULD NOT BE CONSIDERED A CANDIDATE FOR BYPASS SURGERY IN THE EVENT OF PTCA FAILURE (INCLUDING A MAJOR ACUTE COMPLICATION)	NORMAL OR LOW RISK Appropriateness of PTCA, compared to medical therapy	MODERATELY HIGH (O) AND VERY HIGH RISK (X) Appropriateness of PTCA, compared to medical therapy
CHRONIC STABLE ANGINA--SEVERE (CLASS III-IV)		
A. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (1- 2
B. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (3- 4)
C. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (5- 6)
D. Single vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (7- 8)
UNSTABLE ANGINA (NOT FOLLOWING MYOCARDIAL INFARCTION)		
A. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (9- 10
B. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (11- 12)
C. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (13- 14)
D. Single vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (15- 16)
ACUTE MYOCARDIAL INFARCTION		
A. CARDIOGENIC SHOCK		
1. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (17- 18)
2. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (19- 20)
3. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (21- 22)
4. Single vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (23- 24)
B. EVOLVING MYOCARDIAL INFARCTION (AFTER SUCCESSFUL THROMBOLYSIS)		
1. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (25- 26)
2. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (27- 28)
3. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (29- 30)
4. Single vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (31- 32)
C. EVOLVING MYOCARDIAL INFARCTION (THROMBOLYSIS UNSUCCESSFUL OR NOT ADMINISTERED)		
1. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (33- 34)
2. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (35- 36)
3. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (37- 38)
4. Single vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (39- 40)

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter 9

PATIENT HAS SUFFICIENT COMORBIDITIES THAT HE/SHE WOULD NOT BE CONSIDERED A CANDIDATE FOR BYPASS SURGERY IN THE EVENT OF PTCA FAILURE (INCLUDING A MAJOR ACUTE COMPLICATION)	NORMAL OR LOW RISK Appropriateness of PTCA, compared to medical therapy	MODERATELY HIGH (O) AND VERY HIGH RISK (X) Appropriateness of PTCA, compared to medical therapy
POST MYOCARDIAL INFARCTION (1-7 DAYS)		
A. ANGINA AFTER SUCCESSFUL THROMBOLYTIC THERAPY	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (41- 42)
1. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (43- 44)
2. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (45- 46)
3. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (47- 48)
4. Single vessel disease		
B. ANGINA THROMBOLYTIC THERAPY UNSUCCESSFUL OR NOT GIVEN	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (49- 50)
1. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (51- 52)
2. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (53- 54)
3. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (55- 56)
4. Single vessel disease		
POST MYOCARDIAL INFARCTION (ONE TO SIX WEEKS)		
A. ANGINA	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (57- 58)
1. Left main disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (59- 60)
2. Three vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (61- 62)
3. Two vessel disease	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 (63- 64)
4. Single vessel disease		

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	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
______	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
______	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
______	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
______	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
______	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
______	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )

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Chapter ___

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )

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Chapter ___

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

Chapter ___

	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )

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Chapter ___	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )

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Chapter ___	NORMAL OR LOW RISK			MODERATELY HIGH (0) AND VERY HIGH RISK (X)			
	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	Appropriateness of CABG, Pt NOT candidate for PTCA	Appropriateness of CABG, Pt IS candidate for PTCA	Appropriateness of PTCA, compared to medical therapy	
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )
	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9	( )

Appropriateness scale: 1 = extremely inappropriate, 5 = equivocal, 9 = extremely appropriate

QUESTIONNAIRE

1. Do you prefer to define candidates for revascularization as those with 50% narrowing of the vessel? _____

2. Is PTCA indicated in some patients with less than 50% narrowing of the artery? _____

3. Do you believe that there is an overall CABG operative mortality rate for an institution or surgeon, above which they should not perform CABG? _____

4. If your answer to 3 is yes, what is that rate: _____

6. Do you think it is ever appropriate to perform CABG as the sole procedure for patients with ventricular arrhythmias? _____

7. Do you consider a patient with significant disease in a dominant circumflex a. with a small RCA to have the equivalent of 2VD? _____

8. Would you prefer to provide ratings for more than 3 levels of EF? _____

9. If so, please list the indications (by number and letter is ok) where the additional levels are needed. Where would you break it:_____
_____
_____
_____

10. Do you have any additional contraindications to add to the ones provided? If so, list.
_____
_____
_____

11. Are there any missing indications? List.
_____
_____
_____

12. What factors would you add to the Parsonnet score?
_____
_____
_____
_____

13. If you prefer to define any of the factors differently, please note that here and write the definition on the opposite side of this page. Yes: _____